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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=7; day=13; hr=12; min=22; sec=9; ms=618; ]

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Application No: 10521691 Version No: 3.0

**Input Set:****Output Set:**

**Started:** 2009-06-26 12:24:25.303  
**Finished:** 2009-06-26 12:24:41.456  
**Elapsed:** 0 hr(s) 0 min(s) 16 sec(s) 153 ms  
**Total Warnings:** 57  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 57  
**Actual SeqID Count:** 57

| Error code | Error Description                                   |
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| W 402      | Undefined organism found in <213> in SEQ ID (2)     |
| W 402      | Undefined organism found in <213> in SEQ ID (3)     |
| W 402      | Undefined organism found in <213> in SEQ ID (4)     |
| W 402      | Undefined organism found in <213> in SEQ ID (5)     |
| W 402      | Undefined organism found in <213> in SEQ ID (6)     |
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| W 402      | Undefined organism found in <213> in SEQ ID (10)    |
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| W 402      | Undefined organism found in <213> in SEQ ID (17)    |
| W 402      | Undefined organism found in <213> in SEQ ID (18)    |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (20) |

**Input Set:**

**Output Set:**

**Started:** 2009-06-26 12:24:25.303

**Finished:** 2009-06-26 12:24:41.456

**Elapsed:** 0 hr(s) 0 min(s) 16 sec(s) 153 ms

**Total Warnings:** 57

**Total Errors:** 0

**No. of SeqIDs Defined:** 57

**Actual SeqID Count:** 57

| Error code | Error Description  |
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| W 213      | Artificial or Unknown found in <213> in SEQ ID (22)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (23)  |
| W 402      | Undefined organism found in <213> in SEQ ID (24)   |
| W 402      | Undefined organism found in <213> in SEQ ID (25)<br>This error has occurred more than 20 times, will not be displayed    |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (26)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (27)  |
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| W 213      | Artificial or Unknown found in <213> in SEQ ID (31)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (32)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (33)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (34)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (35)  |
| W 213      | Artificial or Unknown found in <213> in SEQ ID (36)  |
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# SEQUENCE LISTING

<110> Okochi, Masayasu

<120> NOVEL Notch-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS USING  
THE SAME

<130> 10873.1604USWO\_H1857

<140> 10521691

<141> 2005-08-31

<150> JP 2002-210040

<151> 2002-07-18

<160> 57

<170> PatentIn version 3.5

<210> 1

<211> 21

<212> PRT

<213> mouse

<400> 1

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| Val | Lys | Ser | Glu | Pro | Val | Glu | Pro | Pro | Leu | Pro | Ser | Gln | Leu | His | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| Met | Tyr | Val | Ala | Ala |
|     |     |     |     | 20  |

<210> 2

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<212> PRT

<213> mouse

<400> 2

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| Val | Lys | Ser | Glu | Pro | Val | Glu | Pro | Pro | Leu | Pro | Ser | Gln | Leu | His | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Met

<210> 3

<211> 18

<212> PRT

<213> mouse

<400> 3

Val Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu  
1 5 10 15

Met Tyr

<210> 4  
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<212> PRT  
<213> mouse

<400> 4

Val Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu  
1 5 10 15

Met Tyr Val Ala  
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<210> 5  
<211> 22  
<212> PRT  
<213> mouse

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Val Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu  
1 5 10 15

Met Tyr Val Ala Ala Ala  
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<210> 6  
<211> 23  
<212> PRT  
<213> mouse

<400> 6

Val Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala  
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<210> 7  
<211> 24  
<212> PRT  
<213> mouse

<400> 7

Val Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala Phe  
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<210> 8

<211> 25

<212> PRT

<213> mouse

<400> 8

Val Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala Phe Val  
20 25

<210> 9

<211> 26

<212> PRT

<213> mouse

<400> 9

Val Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala Phe Val Leu  
20 25

<210> 10

<211> 17

<212> PRT

<213> human

<400> 10

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met

<210> 11

<211> 18  
<212> PRT  
<213> human

<400> 11

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr

<210> 12  
<211> 20  
<212> PRT  
<213> human

<400> 12

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr Val Ala  
20

<210> 13  
<211> 21  
<212> PRT  
<213> human

<400> 13

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr Val Ala Ala  
20

<210> 14  
<211> 22  
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<400> 14

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr Val Ala Ala Ala  
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<210> 15  
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<400> 15

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala  
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<210> 16  
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<400> 16

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala Phe  
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<210> 17  
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<400> 17

Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala Phe Val  
20 25

<210> 18  
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Val Gln Ser Glu Thr Val Glu Pro Pro Pro Pro Ser Gln Leu His Phe  
1 5 10 15

Met Tyr Val Ala Ala Ala Ala Phe Val Leu  
20 25

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<220>  
<223> Primer 1 which is derived from mouse Notch-1 gene for use in site specific mutagenesis.

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<210> 20  
<211> 54  
<212> DNA  
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<220>  
<223> Primer 2 which is derived from mouse Notch-1 gene for use in site specific mutagenesis.

<400> 20  
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<210> 21  
<211> 32  
<212> DNA  
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<220>  
<223> Primer 3 which is derived from mouse Notch-1 gene for use in site specific mutagenesis.

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cctcgcagct gcacctcatg tacgtggcag cg 32

<210> 22  
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<212> DNA  
<213> Artificial

<220>  
<223> Primer 4 which is derived from mouse Notch-1 gene for use in site specific mutagenesis.

<400> 22  
cgctgccacg tacatgaggt gcagctgcga gg 32

<210> 23  
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 <220>  
 <223> Partial amino acid sequence of F-NEXT which is derived from mouse  
 Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 23

Met Pro Arg Leu Leu Thr Pro Leu Leu Cys Leu Thr Leu Leu Pro Ala  
 1 5 10 15

Arg Ala Ala Arg Gly Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met  
 20 25 30

Val Met Lys Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His  
 35 40 45

Leu Met Tyr Val Ala Ala Ala Ala Phe Val Leu Leu Phe Phe Val Gly  
 50 55 60

Cys Gly Val Leu Leu Ser  
 65 70

<210> 24  
 <211> 31  
 <212> PRT  
 <213> mouse

<400> 24

Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala Ala Ala Ala Phe Val  
 1 5 10 15

Leu Leu Phe Phe Val Gly Cys Gly Val Leu Leu Ser Arg Lys Arg  
 20 25 30

<210> 25  
 <211> 31  
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<400> 25

Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val  
 1 5 10 15

Ile Ala Thr Val Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys  
20 25 30

<210> 26

<211> 45

<212> PRT

<213> Artificial

<220>

<223> Partial amino acid sequence of F-NEXT which is derived from mouse  
Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 26

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala  
20 25 30

Ala Ala Ala Phe Val Leu Leu Phe Phe Val Gly Cys Gly  
35 40 45

<210> 27

<211> 38

<212> PRT

<213> Artificial

<220>

<223> Partial amino acid sequence of F-NEXT which is derived from mouse  
Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 27

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala  
20 25 30

Ala Ala Ala Phe Val Leu  
35

<210> 28

<211> 37

<212> PRT

<213> Artificial

<220>

<223> Partial amino acid sequence of F-NEXT which is derived from mouse

Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 28

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala  
20 25 30

Ala Ala Ala Phe Val  
35

<210> 29

<211> 36

<212> PRT

<213> Artificial

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<223> Partial amino acid sequence of F-NEXT which is derived from mouse  
Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 29

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala  
20 25 30

Ala Ala Ala Phe  
35

<210> 30

<211> 35

<212> PRT

<213> Artificial

<220>

<223> Partial amino acid sequence of F-NEXT which is derived from mouse  
Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 30

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala  
20 25 30

Ala Ala Ala  
35

<210> 31  
<211> 35  
<212> PRT  
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<220>  
<223> Partial amino acid sequence of F-NEXT which is derived from mouse  
Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 31

Arg Gly Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys  
1 5 10 15

Ser Glu Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr  
20 25 30

Val Ala Ala  
35

<210> 32  
<211> 33  
<212> PRT  
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<220>  
<223> Partial amino acid sequence of F-NEXT which is derived from mouse  
Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 32

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala  
20 25 30

Ala

<210> 33  
<211> 31  
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<223> Partial amino acid sequence of F-NEXT which is derived from mouse Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 33

Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu Pro Val  
1 5 10 15

Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala Ala  
20 25 30

<210> 34

<211> 32

<212> PRT

<213> Artificial

<220>

<223> Partial amino acid sequence of F-NEXT which is derived from mouse Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 34

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr Val Ala  
20 25 30

<210> 35

<211> 30

<212> PRT

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<223> Partial amino acid sequence of F-NEXT which is derived from mouse Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 35

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met Tyr  
20 25 30

<210> 36

<211> 29

<212> PRT

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<220>

<223> Partial amino acid sequence of F-NEXT which is derived from mouse Notch-1 peptide and has FLAG sequence at N-terminal region.

<400> 36

Leu Arg Asp Tyr Lys Asp Asp Asp Asp Lys Met Val Met Lys Ser Glu  
1 5 10 15

Pro Val Glu Pro Pro Leu Pro Ser Gln Leu His Leu Met  
20 25

<210> 37

<211> 23

<212> PRT

<213> mouse

<400> 37

Leu His Leu Met Tyr Val Ala Ala Ala Ala Phe Val Leu Leu Phe Phe  
1 5 10 15

Val Gly Cys Gly Val Leu Leu  
20

<210> 38

<211> 23

<212> PRT

<213> human

<400> 38

Leu His Phe Met Tyr Val Ala Ala Ala Ala Phe Val Leu Leu Phe Phe  
1 5 10 15

Val Gly Cys Gly Val Leu Leu  
20

<210> 39

<211> 23

<212> PRT

<213> mouse

<400> 39

Leu Leu Tyr Leu Leu Ala Val Ala Val Val Ile Ile Leu Phe Phe Ile  
1 5 10 15

Leu Leu Gly Val Ile Met Ala  
20



<210> 40  
<211> 23  
<212> PRT  
<213> human

<400> 40

Leu Leu Tyr Leu Leu Ala Val Ala Val Val Ile Ile Leu Phe Ile Ile  
1 5 10 15

Leu Leu Gly Val Ile Met Ala  
20

<210> 41  
<211> 23  
<212> PRT  
<213> mouse

<400> 41

Leu Leu Pro Leu Leu Val Ala Gly Ala Val Phe Leu Leu Ile Ile Phe  
1 5 10 15

Ile Leu Gly Val Met Val Ala  
20

<210> 42  
<211> 23  
<212> PRT  
<213> human

<400> 42

Leu Leu Pro Leu Leu Val Ala Gly Ala Val Leu Leu Leu Val Ile Leu  
1 5 10 15

Val Leu Gly Val Met Val Ala  
20

<210> 43  
<211> 23  
<212> PRT  
<213> mouse

<400> 43

Ile Leu Cys Ser Pro Val Val Gly Val Leu Leu Leu Ala Leu Gly Ala  
1 5 10 15

Leu Leu Val Leu Gln Leu Ile  
20

<210> 44  
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<212> PRT  
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<400> 44

Val Leu Cys Ser Pro Val Ala Gly Val Ile Leu Leu Ala Leu Gly Ala  
1 5 10 15

Leu Leu Val Leu Gln Leu Ile  
20

<210> 45  
<211> 24  
<212> PRT  
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<400> 45

Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val  
1 5 10 15

Ile Val Ile Thr Leu Val Met Leu  
20

<210> 46  
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<220>  
<223> Partial amino acid sequence of transmembrane region of F-NEXT  
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Leu His Leu Met Tyr Val Ala Ala  
1 5

<210> 47  
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<212> PRT  
<213> Artificial

<220>  
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which is derived from mouse Notch-1 peptide.

<400> 47

Leu His Leu Met Tyr Val Ala Ala Ala Ala  
1 5 10

<210> 48

<211> 11

<212> PRT

<213> Artificial

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<223> Partial amino acid sequence of transmembrane region of F-NEXT  
which is derived from mouse Notch-1 peptide.

<400> 48

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1 5 10

<210> 49

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Partial amino acid sequence of transmembrane region of F-NEXT  
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Leu His Leu Met Tyr Val Ala Ala Ala Ala Phe Val  
1 5 10

<210> 50

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Partial amino acid sequence of transmembrane region of F-NEXT  
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1 5 10 15

Val Gly Cys Gly Val Leu Leu Ser Arg Lys Arg Arg  
20 25

<210> 51

<211> 24  
<212> PRT  
<213> Artificial

<220>

<223> Partial amino acid sequence of transmembrane region of F-NEXT  
which is derived from mouse Notch-1 peptide.

<400> 51

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1 5 10 15

Val Gly Cys Gly Val Leu Leu Ser  
20

<210> 52  
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<212> PRT  
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<220>

<223> Partial amino acid sequence of transmembrane region of F-NEXT  
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<400> 52

Leu His Leu Met Tyr Val Ala Ala Ala Ala Phe Val Leu Leu Phe Phe  
1